

**Listing of Claims:**

Claims 1-19 (Canceled).

20. (Previously Presented) A camera apparatus comprising:  
an image pickup device which acquires an object image and  
outputs an image signal;

a recording unit which records the image signal output from  
the pickup device;

a first detector which detects a light of a predetermined  
wavelength included in the object image based on the image signal  
output from the image pickup device;

a determination unit which determines whether an image  
pickup frame period is synchronized with a period of an optical  
signal which is included in the image signal output from the  
image pickup device;

a synchronizing unit which synchronizes the image pickup  
frame period with the period of the optical signal by shifting a  
phase of the image pickup frame period when the determination  
unit determines that the image pickup frame period is not  
synchronized with the period of the optical signal; and

a controller which executes a predetermined control  
operation when the light of the predetermined wavelength is  
detected by the detector.

21. (Previously Presented) The camera apparatus according to claim 20, wherein:

the first detector detects a transmitting position of the light; and

5 the controller executes the predetermined control operation based on the transmitting position of the light detected by the first detector.

22. (Previously Presented) The camera apparatus according to claim 21, further comprising:

a second detector which detects a plurality of types of code data which are transmitted by the optical signal, which is  
5 periodically output from the image pickup device; and

wherein the controller executes the control operation based on the plurality of types of code data detected by the second detector.

23. (Previously Presented) The camera apparatus according to claim 22, wherein:

the first detector detects the light before the second detector detects the code data.

24. (Previously Presented) A camera apparatus comprising:  
an image pickup device which acquires an object image and  
outputs an image signal;  
a recording unit which records the image signal output from  
5 the image pickup device;  
a detector which detects a transmitting position of an  
optical signal in the object image based on the image signal  
output from the image pickup device;  
a specifying unit which specifies an area of the object  
10 image based on changes in the transmitting position detected by  
the detector; and  
a controller which executes a control operation based on the  
area specified by the specifying unit.

25. (Previously Presented) A camera apparatus comprising:  
an image pickup device which acquires an object image and  
outputs an image signal;  
a recording unit which records the image signal output from  
the image pickup device;  
a detector which detects a transmitting position of an  
optical signal in the object image based on the image signal  
output from the image pickup device;

a recognition unit which recognizes a moving pattern of a transmitting source of the optical signal based on changes in the transmitting position detected by the detector; and

a controller which executes a control operation based on the moving pattern recognized by the recognition unit.

Claim 26 (Canceled).

27. (Previously Presented) A camera apparatus comprising:  
an image pickup device which acquires an object image and outputs an image signal;

5 a recording unit which records the image signal output from the image pickup device;

a detector which detects a transmitting position of an optical signal in the object image based on the image signal output from the image pickup device;

10 an area setting unit which sets an exposure detection area corresponding to the transmitting position detected by the detector; and

a controller which executes an exposure control operation based on the exposure detection area set by the area setting unit.

28. (Previously Presented) The camera apparatus according to claim 27, wherein:

the area setting unit sets a weighted exposure detection area in which a weighting factor of a portion is changed based on  
5 a distance between the portion and the transmitting position detected by the detector; and

the controller executes a weighted exposure control operation based on the weighted exposure detection area set by the area setting unit.

29. (Previously Presented) A camera apparatus comprising:  
an image pickup device which acquires an object image and outputs an image signal;

a recording unit which records the image signal output from  
5 the image pickup device;

a detector which detects a transmitting position of an optical signal in the object image based on the image signal output from the image pickup device;

an area setting unit which sets a color evaluation area  
10 corresponding to the transmitting position detected by the detector; and

a controller which executes a white balance control operation based on the color evaluation area set by the area setting unit.

30. (Currently Amended) The camera apparatus according to claim ~~29~~ 28, wherein:

the weighted exposure detection area comprises an area which surrounds the transmitting position but does not include the  
5 transmitting position.

Claims 31 and 32 (Canceled).

33. (Previously Presented) A camera operation method comprising:

acquiring an object image and outputting an image signal;  
recording the output image signal;

5 detecting a light of a predetermined wavelength included in the object image based on the output image signal;

determining whether an image pickup frame period is synchronized with a period of an optical signal which is included in the output image signal;

10 synchronizing the image pickup frame period with the period of the optical signal by shifting a phase of the image pickup

frame period when it is determined that the image pickup frame period is not synchronized with the period of the optical signal; and

15           executing a predetermined control operation when the light of the predetermined wavelength is detected.

34. (Previously Presented) A camera operation method comprising:

acquiring an object image and outputting an image signal;  
recording the output image signal;

5           detecting a transmitting position of an optical signal in the object image based on the output image signal;

specifying an area of the object image based on changes in the detected transmitting position; and

executing a control operation based on the specified area.

35. (Previously Presented) A camera operation method comprising:

acquiring an object image and outputting an image signal;  
recording the output image signal;

detecting a transmitting position of an optical signal in the object image based on the output image signal;

recognizing a moving pattern of a transmitting source of the optical signal based on changes in the detected transmitting position detected by the detector; and

executing a control operation based on the recognized moving pattern.

Claim 36 (Canceled).

37. (Previously Presented) A camera operation method comprising:

acquiring an object image and outputting an image signal;

5 recording the output image signal;

detecting a transmitting position of an optical signal in the object image based on the output image signal;

setting an exposure detection area corresponding to the detected transmitting position; and

10 executing an exposure control operation based on the set exposure detection area.

38. (Previously Presented) A camera operation method comprising:

acquiring an object image and outputting an image signal;

recording the output image signal;

5           detecting a transmitting position of an optical signal in  
the object image based on the output image signal;  
          setting a color evaluation area corresponding to the  
detected transmitting position; and  
          executing a white balance control operation based on the set  
10   color evaluation area.

Claim 39 (Canceled).